

AMENDMENTS TO THE CLAIMS

Please amend claims 26, 28 and 42. No new matter is believed to be introduced as a result of the aforementioned amendments. The following listing of claims replaces all prior versions and listings of claims in this application.

1. **(Original)** A host board system comprising
a host board at least partially positioned within a housing having a set of openings, the host board including a set of connectors;
each opening in the set of openings being aligned with at least two connectors from the set of connectors;
said each opening configured to accept two modules of a first form factor so that each module of the first form factor is electrically coupled to one of the at least two connectors; and
said each opening further configured to accept a single module of a second form factor so that the single module of the second form factor is electrically coupled to a first connector of the at least two connectors.
2. **(Original)** The host board system of claim 1, wherein
the single module of the second form factor prevents electrical coupling with a second connector of the at least two connectors by another module.
3. **(Original)** The host board system of claim 1, wherein
the single module of the second form factor is mechanically coupled to the second connector of the at least two connectors.
4. **(Original)** The host board system of claim 1, further comprising
a set of inserts, each insert from said set of inserts configured to plug at least a portion of an opening from the set of openings.
5. **(Original)** The host board system of claim 4, wherein
a first insert from the set of inserts configured to plug only the portion of the opening is further configured to accommodate one module of the first form factor.

6. **(Original)** The host board system of claim 4, wherein
a second insert from the set of inserts configured to plug only the portion of the opening
is further configured to accommodate two modules of the first form factor.
7. **(Original)** The host board system of claim 4, wherein
a third insert from the set of inserts configured to plug only the portion of the opening is
further configured to accommodate one module of the second form factor.
8. **(Original)** The host board system of claim 4, wherein
a fourth insert from the set of inserts configured to completely plug the opening and
prevent insertion of any modules.
9. **(Original)** The host board system of claim 4, wherein
each module of the first form factor and each module of the second form factor includes a
flange, said flange extending around a perimeter of a respective module and abutting an insert
from the set of inserts when said respective module is electrically coupled to a connector from
said set of connectors.
10. **(Original)** The host board system of claim 1, wherein
the housing comprises in part a bezel, the set of openings being distributed across said
bezel.
11. **(Original)** The host board system of claim 10, wherein the bezel is fastened to the host
board.

12. **(Original)** The host board system of claim 1, further comprising
 - a set of slots on the host board, each slot from the set of slots corresponding to a connector from the set of connectors and configured to maintain an electric coupling between a module and a connector from the set of connectors;
 - said each slot configured to accommodate a guide rail included on modules of the first form factor, said modules of the first form factor having a single guide rail; and
 - adjacent slots from the set of slots configured to accommodate a pair of guide rails included on modules of the second form factor, said modules of the second form factor having a single pair of guide rails.
13. **(Original)** The host board system of claim 12, wherein
 - said each slot includes a means for securing a guide rail included on a module within said each slot.
14. **(Original)** A host board system comprising
 - a host board at least partially positioned within a housing having a set of openings, the host board including a set of connectors;
 - each opening from the set of openings being aligned with a plurality of connectors from the set of connectors;
 - said each opening from the set of openings configured to simultaneously accommodate one or more of a plurality of modules, said plurality of modules including modules with a first form factor and modules with a second form factor;
 - the modules with the first form factor each electrically interfacing a respective connector of said plurality of connectors aligned with a respective opening from the set of openings; and
 - the modules with the second form factor each electrically interfacing a respective first connector from said plurality of connectors aligned with the respective opening from the set of openings.
15. **(Original)** The host board system of claim 14, wherein
 - the modules with the second form factor mechanically interface a second connector from said plurality of connectors aligned with the respective opening from the set of openings.

16. **(Original)** The host board system of claim 14, further comprising
a set of inserts, each insert from said set of inserts configured to plug at least a portion of
an opening from the set of openings.
17. **(Original)** The host board system of claim 16, wherein
a first insert from the set of inserts configured to plug only the portion of the opening is
further configured to accommodate one module with the first form factor.
18. **(Original)** The host board system of claim 16, wherein
a second insert from the set of inserts configured to plug only the portion of the opening
is further configured to accommodate two modules with the first form factor.
19. **(Original)** The host board system of claim 16, wherein
a third insert from the set of inserts configured to plug only the portion of the opening is
further configured to accommodate one module with the second form factor.
20. **(Original)** The host board system of claim 16, wherein
a fourth insert from the set of inserts configured to completely plug the opening and
prevent insertion of any modules.
21. **(Original)** The host board system of claim 16, wherein
each module with the first form factor and each module with the second form factor
includes a flange, said flange extending around a perimeter of a respective module and abutting
an insert from the set of inserts when said respective module is electrically coupled to a connector
from said set of connectors.
22. **(Original)** The host board system of claim 14, wherein
the housing comprises in part a bezel, the set of openings being distributed across said
bezel.
23. **(Original)** The host board system of claim 22, wherein
the bezel is fastened to the host board.

24. **(Original)** The host board system of claim 14, further comprising
a set of slots on the host board, each slot from the set of slots corresponding to a connector from the set of connectors and configured to maintain an electric coupling between a module and a connector from the set of connectors;
said each slot configured to accommodate a guide rail included on modules with the first form factor, said modules with the first form factor having a single guide rail; and
adjacent slots from the set of slots configured to accommodate a pair of guide rails included on modules with the second form factor, said modules with the second form factor having a single pair of guide rails.

25. **(Original)** The host board system of claim 24, wherein
said each slot includes a means for securing a guide rail included on a module within said each slot.

26. **(Currently amended)** A host board system comprising
a host board, said host board including a set of connectors mounted on said host board and a set of slots defined in the host board;
each slot from the set of slots open to an edge of the host board;
the set of connectors positioned with respect to the set of slots such that a module with a first form factor slidingly engages with a slot from the set of slots so as to electrically couple with a corresponding connector from the set of connectors; and
the set of connectors also positioned with respect to the set of slots such that a module with a second form factor simultaneously slides into adjacent slots so as to electrically couple with a first corresponding connector from the set of connectors.

27. **(Original)** The host board system of claim 26, wherein the module with the second form factor when slidingly engaged with adjacent slots mechanically couples with a second corresponding connector from the set of connectors.

28. **(Currently amended)** The host board system of claim 26, wherein the set of connectors are evenly spaced apart so that each connector from the set of connectors can simultaneously accommodate [[a]] modules with the first form factor.

29. **(Original)** The host board system of claim 26, wherein
the set of slots are evenly spaced apart so that each slot from the set of slots can simultaneously accommodate modules with the first form factor.
30. **(Original)** The host board system of claim 26, wherein
said each slot from the set of slots has a central axis along which a module travels while when slidingly engaged with a slot from the set of slots, said central axis superposes a central axis of a corresponding connector.
31. **(Original)** The host board system of claim 26, wherein
the module with the first form factor comprises a single width transceiver.
32. **(Original)** The host board system of claim 26, wherein
the module with the second form factor comprises a double width transceiver.
33. **(Original)** The host board system of claim 26, wherein
each module includes a guide rail, said each slot from the set of slots being sized to accommodate the guide rail such that said guide rail is the portion of a module slidingly engaged with and in contact with a respective slot.
34. **(Original)** The host board system of claim 33, wherein
said each slot includes a means for securing the guide rail included within said each slot.
35. **(Original)** The host board system of claim 26, further comprising
a rigid body of uniform thickness, a surface of said rigid body abutting the edge of the host board; and
the surface including an array of openings, each opening from the array of openings sized to accommodate one or more modules.
36. **(Original)** The host board system of claim 35, further comprising
an insert configured to cover an opening from the array of openings, said insert forming a seal with said rigid body when said insert is inserted into said opening from the array of openings.

37. **(Original)** The host board system of claim 35, further comprising
an insert configured to cover a portion of an opening from the array of openings, said
insert forming a seal with said rigid body when said insert is inserted into said opening from the
array of openings.
38. **(Original)** The host board system of claim 37, wherein
the insert is further configured to accommodate a single module with the first form factor,
said insert and said module with the first form factor forming a seal when said module with the
first form factor is electrically coupled with a corresponding connector from the set of connectors.
39. **(Original)** The host board system of claim 37, wherein
the insert is further configured to accommodate two modules with the first form factor,
said insert and said modules with the first form factor forming two seals when said modules with
the first form factor are electrically coupled with corresponding connectors from the set of
connectors.
40. **(Original)** The host board system of claim 37, wherein
the insert is further configured to accommodate a single module with the second form
factor, said insert and said module with the second form factor forming a seal when said module with the
second form factor is electrically coupled with a corresponding connector from the set of
connectors.
41. **(Original)** The host board system of claim 37, wherein
said rigid body is fastened to said host board.

42. **(Currently amended)** A host board system comprising
 - a host board, said host board including a set of connectors mounted on said host board and a set of slots defined in the host board;
 - each slot from the set of slots located along an edge of the host board such that said each slot is open to said edge;
 - the set of connectors positioned with respect to the set of slots such that each slot can separately accommodate a module with a first form factor engaging a corresponding connector from said set of connectors and a module with a second form factor engaging one or more corresponding connectors from said set of connectors; and
 - the set of slots spaced such that each slot from the set of slots can simultaneously accommodate a module with the first form factor.
43. **(Original)** The host board system of claim 42, wherein
 - the module with the second form factor electrically couples with a first connector from said one or more corresponding connectors.
44. **(Original)** The host board system of claim 43, wherein
 - the module with the second form factor mechanically couples with a second connector from said one or more corresponding connectors.
45. **(Original)** The host board system of claim 42, wherein
 - the module with the first form factor electrically couples with the connector.
46. **(Original)** The host board system of claim 42, wherein
 - the module with the first form factor comprises a single width transceiver.
47. **(Original)** The host board system of claim 42, wherein
 - the module with the second form factor comprises a double width transceiver.
48. **(Original)** The host board system of claim 42, wherein
 - each module includes a guide rail, said each slot from the set of slots being sized to accommodate the guide rail such that said guide rail is the portion of a module slidingly engaged with and in contact with a respective slot.

49. **(Original)** The host board system of claim 48, wherein
said each slot includes a means for securing the guide rail included within said each slot.
50. **(Original)** The host board system of claim 42, further comprising
a rigid body of uniform thickness, a surface of said rigid body abutting the edge of the
host board; and
the surface including an array of openings, each opening from the array of openings sized
to accommodate one or more modules.
51. **(Original)** The host board system of claim 50, further comprising
an insert configured to cover an opening from the array of openings, said insert forming a
seal with said rigid body when said insert is inserted into said opening from the array of openings.
52. **(Original)** The host board system of claim 50, further comprising
an insert configured to cover a portion of an opening from the array of openings, said
insert forming a seal with said rigid body when said insert is inserted into said opening from the
array of openings.
53. **(Original)** The host board system of claim 52, wherein
the insert is further configured to accommodate a single module with the first form factor,
said insert and said module with the first form factor forming a seal when said module with the
first form factor engage a corresponding connector from the set of connectors.
54. **(Original)** The host board system of claim 52, wherein
the insert is further configured to accommodate two modules with the first form factor,
said insert and said modules with the first form factor forming two seals when said modules with
the first form factor engage corresponding connectors from the set of connectors.
55. **(Original)** The host board system of claim 52, wherein
the insert is further configured to accommodate a single module with the second form
factor, said insert and said module with the second form factor forming a seal when said module
with the second form factor engage a corresponding connector from the set of connectors.

56. **(Original)** The host board system of claim 50, wherein
said rigid body is fastened to said host board.
57. **(Original)** The host board system of claim 42, wherein
the module with the second form factor occupies two slots from the set of slots while
engaging one or more corresponding connectors from said set of connectors.
58. **(Withdrawn)** A double-width transceiver, the double-width transceiver sized to
accommodate a pair of plugs disposed on a first side of said double-width transceiver, each plug
of said pair of plugs configured to mechanically couple said double-width transceiver to a
respective connector of a set of adjacent connectors on a host board system, wherein a first plug
in said pair of plugs is further configured to electrically couple said double-width transceiver to
said host board system through a first connector in said set of adjacent connectors.
59. **(Withdrawn)** The double-width transceiver of claim 58, wherein
a second plug in the pair of plugs forms a cap covering electrical interfaces of a second
connector in said set of adjacent connectors, said second plug not being electrically coupled to
said second connector in said set of adjacent connectors.
60. **(Withdrawn)** The double-width transceiver of claim 58, wherein
a second plug in the pair of plugs also electrically couples said double-width transceiver
to the set of adjacent connectors on the host board system.
61. **(Withdrawn)** The double-width transceiver of claim 60, wherein the second plug in the
pair of plugs includes
an electrical interface configured to transfer electrical power from the host board system
through a corresponding electrical interface included in the set of adjacent connectors to the
double-width transceiver.

62. **(Withdrawn)** The double-width transceiver of claim 60, wherein the second plug in the pair of plugs includes

an electrical interface configured to ground the double-width transceiver to the host board system through a corresponding electrical interface included in the set of adjacent connectors.

63. **(Withdrawn)** The double-width transceiver of claim 60, wherein the second plug in the pair of plugs includes

an electrical interface configured to exchange electrical data signals between the double-width transceiver and the host board system through a corresponding electrical interface included in the set of adjacent connectors.

64. **(Withdrawn)** The double-width transceiver of claim 58, wherein the first plug in the pair of plugs includes

a first electrical interface configured to transfer electrical power from the host board system through a corresponding electrical interface included in the set of adjacent connectors to the double-width transceiver;

a second electrical interface configured to ground the double-width transceiver to the host board system through a corresponding electrical interface included in the set of adjacent connectors; and

a third electrical interface configured to exchange electrical data signals between the double-width transceiver and the host board system through a corresponding electrical interface included in the set of adjacent connectors.

65. **(Withdrawn)** The double-width transceiver of claim 58, further including

a flange, said flange extending around a perimeter of the double-width transceiver, said flange configured to abut the host board system when said double-width transceiver is coupled to the set of adjacent connectors on said host board system.

66. **(Withdrawn)** The double-width transceiver of claim 65, further including a guide rail attached to a second side of the double-width transceiver, said guide rail positioned to slidably engage said double-width transceiver to a slot formed on the host board system in a direction substantially perpendicular to a plane formed by the flange.
67. **(Withdrawn)** The double-width transceiver of claim 58, further including a guide rail attached to a second side of the double-width transceiver, said guide rail positioned to slidably engage said double-width transceiver to a slot formed on the host board system.
68. **(Withdrawn)** The double-width transceiver of claim 67, further including a flange, said flange extending around a perimeter of the double-width transceiver, said flange configured to abut the host board system when said double-width transceiver is coupled to the set of adjacent connectors on said host board system, said flange forming a plane that is perpendicular to a direction in which said guide rail slidably engages the slot formed on the host board system.
69. **(Withdrawn)** The double-width transceiver of claim 58 wherein the double-width transceiver is sized to permit a set of double-width transceivers to simultaneously couple mechanically with an adjacent set of adjacent connectors on the host board system.
70. **(Withdrawn)** The double-width transceiver of claim 58, wherein the first plug in said pair of plugs is suitable for use by a single-width transceiver to mechanically and electrically couple said single-width transceiver to either connector in said set of adjacent connectors.

71. **(Withdrawn)** A system comprising
a host board and a double-width transceiver;
the host board including a set of connectors mounted on said host board and a set of slots, each slot from the set of slots open to an edge of the host board;
the double-width transceiver sized to accommodate a pair of plugs disposed on a first side of the double-width transceiver; and
the set of connectors positioned with respect to the set of slots to enable the double-width transceiver to slidably engage a slot in the set of slots so as to mechanically and electrically couple said double-width transceiver to two adjacent connectors in said set of connectors.
72. **(Withdrawn)** The system of claim 71, wherein
each plug in the pair of plugs is configured to mechanically couple said double-width transceiver to the two adjacent connectors.
73. **(Withdrawn)** The system of claim 72, wherein
a first plug in the pair of plugs is configured to electrically couple said double-width transceiver to said host board system through a first connector in the two adjacent connectors.
74. **(Withdrawn)** The system of claim 73, wherein
a second plug in the pair of plugs forms a cap covering electrical interfaces of a second connector in the two adjacent connectors.
75. **(Withdrawn)** The system of claim 73, wherein
a second plug in the pair of plugs also electrically couples said double-width transceiver to a second connector in the two adjacent connectors.
76. **(Withdrawn)** The system of claim 75, wherein the second plug in the pair of plugs includes
an electrical interface configured to transfer electrical power from the host board to the double-width transceiver through a corresponding electrical interface included in the two adjacent connectors.

77. **(Withdrawn)** The system of claim 75, wherein the second plug in the pair of plugs includes
an electrical interface configured to ground the double-width transceiver to the host board through a corresponding electrical interface included in the two adjacent connectors.
78. **(Withdrawn)** The system of claim 75, wherein the second plug in the pair of plugs includes
an electrical interface configured to exchange electrical data signals between the double-width transceiver and the host board through a corresponding electrical interface included in the two adjacent connectors.
79. **(Withdrawn)** The system of claim 73, wherein the first plug in the pair of plugs includes
a first electrical interface configured to transfer electrical power from the host board to the double-width transceiver through a corresponding electrical interface included in the two adjacent connectors;
a second electrical interface configured to ground the double-width transceiver to the host board through a corresponding electrical interface included in the two adjacent connectors; and
a third electrical interface configured to exchange electrical data signals between the double-width transceiver and the host board through a corresponding electrical interface included in the two adjacent connectors.
80. **(Withdrawn)** The system of claim 73, wherein
the first plug in said pair of plugs is suitable for use by a single-width transceiver to mechanically and electrically couple said single-width transceiver to either of the two adjacent connectors.
81. **(Withdrawn)** The system of claim 71, wherein double-width transceiver further includes
a guide rail attached to a second side of the double-width transceiver, said guide rail positioned to enable the double-width transceiver to slidably engage the slot in the set of slots and mechanically and electrically couple the two adjacent connectors.

82. **(Withdrawn)** The system of claim 71, wherein
the double-width transceiver is sized to permit a set of double-width transceivers to
simultaneously couple with an adjacent set of two adjacent connectors.
83. **(Withdrawn)** The system of claim 71, wherein double-width transceiver further includes
a flange, said flange extending around a perimeter of the double-width transceiver, said
flange configured to abut a rigid body fastened to said host board when said double-width
transceiver is coupled to the two adjacent connectors.
84. **(Withdrawn)** A transceiver, the transceiver sized to accommodate a pair of plugs
disposed on a first side of said transceiver, each plug of said pair of plugs configured to
simultaneously couple said transceiver to a respective connector of a set of adjacent connectors
on a host board system, said each of said pair of plugs being of a size suitable to couple a single-
width transceiver to either of the connectors in the set of adjacent connectors.
85. **(Withdrawn)** A transceiver, the transceiver sized to accommodate a pair of plugs
disposed on a first side of said transceiver, each plug of said pair of plugs configured to
simultaneously couple said transceiver to a respective connector of a set of adjacent connectors
on a host board system, said each of said pair of plugs being of a size suitable to couple a small
form factor transceiver to either of the connectors in the set of adjacent connectors.
86. **(Withdrawn)** A transceiver, the transceiver sized to accommodate a pair of plugs
disposed on a first side of said transceiver, each plug of said pair of plugs configured to
simultaneously couple said transceiver to a respective connector of a set of adjacent connectors
on a host board system, said each of said pair of plugs being of a size suitable to couple a narrow
transceiver to either of the connectors in the set of adjacent connectors.